

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-000021**Date Inspected:** 20-Mar-2007**Project Name:** SAS Superstructure**OSM Arrival Time:** 800**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1730**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**Quality Control Contact:** Fu Yu Hong**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** N/A**Bridge No:** 34-0006**Component:** Mock-ups**Bid Item:** 52**Lot No:** B71-018-07**Summary of Items Observed:**

The CALTRANS Quality Assurance (QA) Inspector, Alfredo Acuna was present on the ZPMC facility reviewing Material Testing Reports (MTRs) for chemical and mechanical properties, verifying mill markings and performing random dimensional and physical inspections to a total of 9 steel plates of A709 Gr50T-2 (7 pieces) and A709 Gr50F-2(2 pieces). The material verified was listed as follows:

1 plate, 6 mm thick (thk) A709-50T-2: Heat Number (HT #) 74500607222657

1 plate 8 mm thk A709-50F-2: HT # 06204876020503

1 plate 10 mm thk A709-50T-2: HT # 06203136010203

1 plate 14 mm thk A709-50T-2: HT # 06204845020102

1 plate 14 mm thk A709-50T-2: HT # 06205128030203

1 plate 24 mm thk A709-50T-2: HT # 06201870010104

1 plate 20 mm thk A709-50T-2: HT # 06203373040203

1 plate 26 mm thk A709-50F-2: HT # 624174

1 plate 26 mm thk A709-50F-2: HT # 06202431020101

Total weight without the 26 mm thk plate A709-50F-2: HT # 06202431020101 was recorded as 27,401 Kilograms.

The QA inspector observed that plates appeared to be in general compliance with contract documents with the exception of the plate 26x2800x13000, A709-50F-2 (for fracture critical materials) and heat # 06202431020101.

The heat number of the 26 mm plate was scratched and re-stamped with a number one (1) high stress marking as shown on the digital photograph below. The QA inspector had a conversation with the Caltrans QA Task Leader Dave McClary. The QA inspector brought to the attention of Mr. McClary that the QA inspector could not verify the traceability between the MTR and the mill steel markings on the 26 mm A709-50F-2 steel plate due to the number one (1) was re-stamped and there was not evidence that the mark was the correct stamp from the mill.

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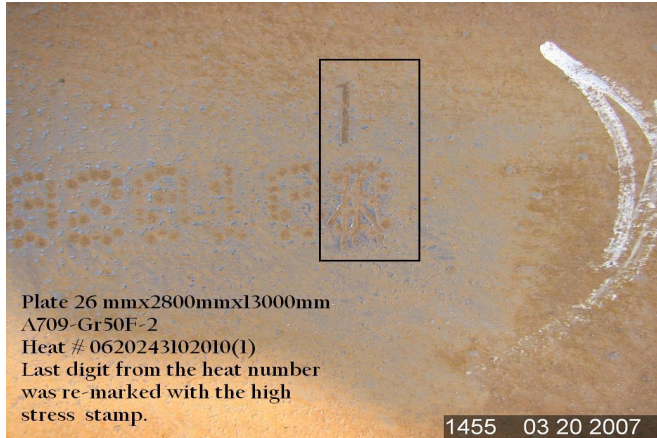
## SOURCE INSPECTION REPORT

( Continued Page 2 of 2 )

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After Mr. McClary and Craig Knops American Bridge/Flour Enterprises, Inc Welding Engineer verified the mill marking on this particular plate, Mr. McClary and Mr. Knops decided to reject the plate in question.

In later conversation with Mr. McClary, Mr. McClary relayed to the QA inspector that the use of the material above mentioned would be determined on later date (some of the material will be used by ZPMC for information only to verify distortion after welding and some of the other plates could be used in the actual mock-ups).



### Summary of Conversations:

As above noted.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Acuna, Alfredo	Quality Assurance Inspector
<b>Reviewed By:</b>	McClary, David	QA Reviewer

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